

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A proximal insert for a coaxial catheter, comprising:
 - a body, having a proximal end and distal end, comprising;
 - a first passageway extending from a first opening on the distal end of the body to a second opening on the proximal end of the body and configured to receive an inner lumen of a coaxial catheter;
 - a shoulder on an outer surface of said distal end, positioned proximate said first opening, wherein said shoulder is configured to abut a wall of an outer lumen of a coaxial catheter; and
 - a second passageway extending from said first passageway to a third opening, the first passageway having a first cross-sectional area from the distal end of the body to the second passageway and a second cross-sectional area from the second passageway to the proximal end of the body, the first cross-sectional area larger than the second cross-sectional area, the second cross-sectional area substantially the same as an outer wall of the inner lumen.
2. (Original) The proximal insert according to claim 1, wherein said second passageway forms an angle with said first passageway in the range of approximately 15° to 60°.
3. (Original) The proximal insert according to claim 1, wherein said body is comprised of a material selected from the group consisting of plastic, stainless steel, titanium, nitinol and epoxy.
4. (Original) The proximal insert according to claim 1, wherein an outer surface distal of said shoulder is tapered.

5. (Original) The proximal insert according to claim 1, wherein said first passageway has a smaller diameter proximal to the point at which said second passageway connects thereto.

6. (Original) The proximal insert according to claim 1, wherein a diameter of said second passageway increases at a point adjacent said third opening.

7. (Original) The proximal insert according to claim 1, further comprising a second shoulder on an outer surface of said proximal end positioned proximate said third opening, wherein said second shoulder is configured to abut a wall of an extension tube.

8. (Currently amended) A multi-lumen catheter, comprising:
a coaxial catheter comprising at least two lumens, an inner lumen and an outer lumen;
at least two extension tubes; and
an insert positioned between said catheter and said tubes, comprising:
a body, having a proximal end and distal end, comprising;
a first passageway extending from a first opening on the distal end of the body to a second opening on the proximal end of the body and configured to receive [an] the inner lumen of [a] the coaxial catheter;
a shoulder on an outer surface of said distal end, positioned proximate said first opening, wherein said shoulder is configured to abut a wall of an outer lumen of said coaxial catheter; and
a second passageway extending from said first passageway to a third opening, the first passageway having a first cross-sectional area from the distal end of the body to the second passageway and a second cross-sectional area from the second passageway to the proximal end of the body, the first cross-sectional area larger than the second cross-sectional area.

9. (Original) A multi-lumen catheter according to claim 8, wherein said inner lumen of said coaxial catheter is positioned within said first passageway of said body and said distal end of said body is positioned within said outer lumen of said coaxial catheter, said shoulder abutting a wall thereof.

10. (Original) A multi-lumen catheter according to claim 9, wherein a first of said extension leg tubes is connected to said inner lumen of said coaxial catheter and a second of said extension tubes is connected to said second opening of said body.

11. (Original) A multi-lumen catheter according to claim 10, further comprising a hub molded over a proximal end of said coaxial catheter and said body, wherein said body is completely encapsulated by said hub.

12-14. (Canceled).

15. (Previously presented) A catheter assembly, comprising:

a first generally tubular member;

an insert including a first leg positioned in a proximal opening of the first member;

a second generally tubular member positioned coaxially in a lumen of the first member and a first channel of the insert; and

a hub disposed over the insert and a proximal end of the first member.

16. (Previously presented) The catheter assembly according to claim 15, the first leg extending from a distal end of the insert and terminating at a shoulder disposed on an outer surface of the insert.

17. (Previously presented) The catheter assembly according to claim 16, a surface of the first member proximal end contacting the shoulder.

18. (Previously presented) The catheter assembly according to claim 15, wherein the first leg has a tapered outer surface.

19. (Previously presented) The catheter assembly according to claim 15, the insert including a second channel in fluid communication with the first channel and the first member lumen.

20. (Previously presented) The catheter assembly according to claim 19, wherein a longitudinal axis of the second channel forms an angle with a longitudinal axis of the first channel in the range of about 15 degrees to about 60 degrees.

21. (Previously presented) The catheter assembly according to claim 15, further comprising a third generally tubular member having a distal end adjacent a first proximal insert opening, the third member in fluid communication with the second member.

22. (Previously presented) The catheter assembly according to claim 21, further comprising a fourth generally tubular member, the insert including a second leg positioned in a distal opening of the fourth member.

23. (Previously presented) The catheter assembly according to claim 22, wherein the hub is disposed over the distal ends of the third and fourth members.